AMENDMENTS TO THE CLAIMS

Listing of Claims

1. (Previously Presented) In a wireless communications receiver having a timing

recovery module, carrier recovery module, automatic gain control module, and equalization

module, said communications receiver responsive to a received signal to form soft decision

samples corresponding to said received signal and hard decision samples corresponding to

said received signal, a method for jointly operating said timing recovery module, said carrier

recovery module, said automatic gain control module, and said equalization module, said

method comprising:

deriving control signals from said soft and hard decision samples, wherein the control

signals comprise a candidate error term and a combining weight; and

using said control signals to jointly determine operation of said timing recovery

module, said carrier recovery module, said automatic gain control module, and said

equalization module.

2. (Cancelled)

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3. (Previously Presented) The method of claim 1, wherein the received signal comprises data, the method further comprising:

adjusting a sampling phase and frequency of the data.

4. (New) The method of claim 1, further comprising:

determining the combining weight by comparing the soft decision sample to a nearest element in a source constellation.